

Mathematische Annalen

Band 298 1994

Begründet 1868 durch *Alfred Clebsch* und *Carl Neumann*, früher herausgegeben von *Alfred Clebsch* (1869–1872), *Carl Neumann* (1869–1876), *Felix Klein* (1876–1924), *Adolph Mayer* (1876–1901), *Walter v. Dyck* (1888–1921), *David Hilbert* (1902–1939), *Otto Blumenthal* (1906–1938), *Albert Einstein* (1920–1928), *Constantin Carathéodory* (1925–1928), *Erich Hecke* (1929–1947), *Bartel L van der Waerden* (1934–1968), *Franz Rellich* (1947–1955), *Kurt Reidemeister* (1947–1963), *Richard Courant* (1947–1968), *Heinz Hopf* (1947–1968), *Gottfried Köthe* (1957–1971), *Heinrich Behnke* (1938–1972), *Max Koecher* (1968–1976), *Lars Garding* (1970–1978), *Konrad Jörgens* (1972–1974), *Fritz John* (1968–1979), *Peter Dombrowski* (1970–1983), *Louis Boutet de Monvel* (1979–1983), *Wulf-Dieter Geyer* (1979–1983), *Elmar Thoma* (1974–1990), *Winfried Scharlau* (1984–1990), *Hans Grauert* (1963–1991), *Heinz Bauer* (1971–1992), *Hans Föllmer* (1990–1993)

Band 1–80 Leipzig, B. G. Teubner, ab Band 81 (1920) Berlin, Springer

Herausgegeben von

Herbert Amann, Zürich · **Jean-Pierre Bourguignon**, Palaiseau

Christopher Deninger, Münster · **Yoshikazu Giga**, Sapporo

Günter Harder, Bonn · **Friedrich Hirzebruch**, Bonn

Nigel Hitchin, Coventry · **Matthias Kreck**, Mainz

Ngaiming Mok, Orsay · **Gilles Pisier**, Paris

Reinhold Remmert, Münster · **Alain-Sol Sznitman**, Zürich



Springer International

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any error or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0025-5831, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

The Canada Institute for Scientific and Technical Information (CISTI) provides a comprehensive, world-wide document delivery service for all Springer-Verlag journals. For more information, or to place an order for a copyright-cleared Springer-Verlag document, please contact Client Assistant, Document Delivery, Canada Institute for Scientific and Technical Information, Ottawa K1A 0S2, Canada (Tel.: 613-993-9251; Fax: 613-952-8243; e-mail: cisti.docdel@nrc.ca).

Printers: Brühlsche Universitätsdruckerei, Giessen
© Springer-Verlag Berlin Heidelberg 1994
Springer-Verlag GmbH & Co. KG, Berlin, Germany
Printed in Germany

Inhalt/Contents

Berceanu, B., Papadima, S.: Cohomologically generic 2-complexes and 3-dimensional Poincaré complexes 457

Bonk, M.: The addition theorem of Weierstrass's sigma function 591

Bordoni, M.: Spectral estimates for Schrödinger and Dirac-type operators on Riemannian manifolds 693

Chaumat, J., Chollet, A.-M.: Surjectivité de l'application restriction à un compact dans des classes de fonctions ultradifférentiables 7

Chen, Z. Q., Williams, R. J., Zhao, Z.: On the existence of positive solutions of semilinear elliptic equations with Dirichlet boundary conditions 543

Chollet, A.-M. → Chaumat, J.

Crawley-Boevey, W., Kerner, O.: A functor between categories of regular modules for wild hereditary algebras 481

Edmunds, D. E., Stepanov, V. D.: The measure of non-compactness and approximation numbers of certain Volterra integral operators 41

Eschmeier, J.: Representations of $H^*(G)$ and invariant subspaces 167

Ezov, V. V., Schmalz, G.: Poincaré automorphisms for nondegenerate CR quadrics 79

Fadlalla, A. A.: The Carathéodory distance in strongly pseudoconvex domains 141

Florit, L. A.: On submanifolds with nonpositive extrinsic curvature 187

Godin, P.: Global sound waves for quasilinear second order wave equations 497

Gröger, K.: Boundedness and continuity of solutions to linearelliptic boundary value problems in two dimensions 719

Gruson, L., Skiti, M.: 3-Instantons of réseaux de quadriques 253

Gubler, W.: Höhentheorie (Mit einem Appendix von J. Kramer: Eine alternative Begründung der Néron-Tate Höhe) 427

Hayashi, N., Ozawa, T.: Modified wave operators for the derivative nonlinear Schrödinger equation 557

Heusener, M.: $\text{SO}_3(\mathbb{R})$ -representation curves for two-bridge knot groups 327

Hofmann, K. H., Ruppert, W. A. F.: On porcupine varieties in Lie algebras 403

Huybrechts, D.: Complete curves in moduli spaces of stable bundles on surfaces 67

Jeffrey, L. C.: Extended moduli spaces of flat connections on Riemann surfaces 667

Kang, S.-J.: Generalized Kac-Moody algebras and the modular function j 373

Katsoprinakis, E. S., Nestoridis, V.: An application of Kronecker's theorem to rational functions 145

Kerner, O. → Crawley-Boevey, W.

Lopez, A. F.: Noether-Lefschetz, space curves and mathematical instantons 385

Lu, P., Tian, G.: The complex structure on a connected sum of $S^1 \times S^3$ with trivial canonical bundle 761

Luft, E., Zhang, X.: Symmetric knots and the cabling conjecture 489

Mihalache, N.: Every finitely presented group is the π_1 of some two dimensional Stein space 533

Nestoridis, V. → Katsoprinakis, E. S.

Neukirch, J.: Micro primes 629

Okayasu, T.: Regularity of minimizing harmonic maps into S^4 , S^5 and symmetric spaces 193

Ozawa, T. → Hayashi, N.

Papadima, S. → Berceanu, B.

Pedersen, N. V.: Orbits and primitive ideals of solvable Lie algebras 275

Pfitzner, H.: Weak compactness in the dual of a C^* -algebra is determined commutatively 349

Pinkall, U., Schwenk-Schellschmidt, A., Simon, U.: Geometric methods for solving Codazzi and Monge-Ampère equations 89

Rademacher, H.-B.: On a generic property of geodesic flows 101

Ruppert, W. A. F. → Hofmann, K. H.

Sangwine-Yager, J. R.: A representation for volume involving interior reach 1

Schmalz, G. → Ežov, V. V.

Schwenk-Schellschmidt, A. → Pinkall, U.

Simon, U. → Pinkall, U.

Skiti, M. → Gruson, L.

Speicher, R.: Multiplicative functions on the lattice of non-crossing partitions and free convolution 611

Stepanov, V. D. → Edmunds, D. E.

Terasoma, T.: A product formula for period integrals 577

Tian, G. → Lu, P.

Tian, Y.: The based $SU(n)$ -instanton moduli spaces 117

Wang, Q.-M.: On a class of minimal hypersurfaces in R^n 207

Williams, R. J. → Chen, Z. Q.

Zeghib, A.: Feuilletages géodésiques appliqués 729

Zhang, X. → Luft, E.

Zhao, Z. → Chen, Z. Q.

Comprehensively covered by
Zentralblatt für Mathematik and
Mathematical Reviews

